Carbohydrate Research, 223 (1992) c7–c9
Elsevier Science Publishers B.V., Amsterdam

CONTENTS

(Abstracts/contents lists published in: Chem. Abstr.; Curr. Contents: Phys., Chem. & Earth Sci.; Life Sci. Full texts are incorporated in CJELSEVIER, *a file in the Chemical Journals Online database which is available on STN® International.)*

Preparation of di-*O*-triphenylmethyl (trityl-) cyclomaltohexaoses and -cyclomaltoheptaoses and characterization of three positional isomers of each by the "hex-5-enose degradation"
T. Tanimoto, M. Tanaka, T. Yuno, and K. Koizumi (Nishinomiya, Japan) 1

The crystal structure of D-threitol at 119 K and 298 K
G. A. Jeffrey and D.-b. Huang (Pittsburg, PA, U.S.A.) 11

^{1}H-N.m.r. study of enzymically generated wheat-endosperm arabinoxylan oligosaccharides: structures of hepta- to tetradeca-saccharides containing two or three branched xylose residues
R. A. Hoffmann, T. Geijtenbeek, J. P. Kamerling, and J. F. G. Vliegenthart (Utrecht, The Netherlands) 19

Crystal structure of lactitol (4-*O*-β-D-galactopyranosyl-D-glucitol)
J. Kivikoski, I. Pitkänen, J. Valkonen (Jyväskylä, Finland), and H. Heikkilä (Kantvik, Finland) 45

Crystal structure of lactitol (4-*O*-β-D-galactopyranosyl-D-glucitol) dihydrate
J. Kivikoski, J. Valkonen (Juväskylä, Finland), and J. Nurmi (Kantvik, Finland) 53

Directed enzymatic synthesis of linear and branched gluco-oligosaccharides, using cyclodextrin-glucanosyltransferase
D. Vetter, W. Thorn, H. Brunner, and W. A. Konig (Hamburg, Germany) 61

Induced circular-dichroism spectra of complexes of cyclomalto-oligosaccharides and azo dyes containing naphthalene nuclei
M. Suzuki (Osaka, Japan), M. Kajtár, J. Szejtli, M. Vikmon, and E. Fenyvesi (Budapest, Hungary) 71

One- and two-dimensional ^{13}C-n.m.r. characterization of two series of oligosaccharides derived from porcine intestinal mucosal heparin by degradation with heparinase
P. Gettins and A. P. Horne (Nashville, TN, U.S.A.) 81

Distribution of substituents in *O*-(2-hydroxypropyl) derivatives of cyclomalto-oligosaccharides (cyclodextrins): influence of increasing substitution, of the base used in the preparation, and of macrocyclic size
C. T. Rao, J. Pitha (Baltimore, MD, U.S.A.), B. Lindberg, and J. Lindberg (Stockholm, Sweden) 99

Synthesis of di-*O*-glycosyl derivatives of methyl α-L-rhamnopyranoside
N. E. Nifant'ev, G. M. Lipkind, A. S. Shashkov, and N. K. Kochetkov (Moscow, U.S.S.R.) 109

Photolabile derivatives of maltose and maltotriose as ligands for the affinity labelling of the maltodextrin-binding site in porcine pancreatic alpha-amylase
M. Blanc-Muesser, H. Driguez (Grenoble, France), J. Lehmann, and J. Steck (Freiburg, Germany) 129

Enzymic deacetylation of derivatives of 1,2-*O*-isopropylidene-α-D-hexofuranoses
K. Kefurt, Z. Kefurtová, J. Jarý, I. Horáková, and M. Marek (Prague, Czechoslovakia) . 137

Efficient and stereoselective synthesis of methyl 3-*O*-(3,6-anhydro-β-D-galactopyranosyl)-α-D-galactopyranoside and methyl 3,6-anhydro-4-*O*-β-D-galactopyranosyl-α-D-galactopyranoside
A. Rashid and W. Mackie (Leeds, Gt. Britain) 147

Papulacandins and chaetiacandin: a stereoselective route to their basic skeleton by a palladium-mediated arylation of 4,6-*O*-benzylidene-3-*O*-*tert*-butyldimethylsilyl-1-tributylstannyl-D-glucal
E. Dubois and J.-M. Beau (Orléans, France) 157

Synthesis of glycosyl phosphates and azides
S. Sabesan and S. Neira (Wilmington, DE, U.S.A.) 169

Structural analysis of monosulfated side-chain oligosaccharides isolated from human tracheobronchial mucous glycoproteins
T. P. Mawhinney, E. Adelstein, D. A. Gayer, D. C. Landrum, and G. J. Barbero (Columbia, MO, U.S.A.) 187

Proteoglycans in human burn hypertrophic scar from a patient with Ehlers–Danlos syndrome
H. G. Garg, E. W. Lippay (Boston, MA. U.S.A.), and P. J. Neame (Tampa, FL, U.S.A.) 209

The structure of mytilan, a bioglycan-immunomodulator isolated from the mussel *Crenomytilus grayanus*
R. G. Ovodova, V. E. Glazkova, L. V. Mikheyskaya, V. I. Molchanova, V. V. Isakov, Yu. S. Ovodov (Vladivostok, U.S.S.R.), and L. E. Fernandez Molina (Havana, Cuba) 221

Exopolysaccharides from *Rhizobium meliloti* YE-2 grown under different osmolarity conditions: viscoelastic properties
L. Navarini, A. Cesàro (Trieste, Italy), and S. B. Ross-Murphy (Cambridge, Gt. Britain) . 227

Structure and properties of waxy-rice (IR29) starch during development of the grain
G. Murugesan, S. Hizukuri (Kagoshima, Japan), M. Fukuda (Nishinomiya, Japan), and B. O. Juliano (Los Banos, Philippines) 235

C-Glycosyl compounds bind to receptors on the surface of *Escherichia coli* and can target proteins to the organism
C. Bertozzi and M. Bednarski (Berkeley, CA, U.S.A.) 243

Properties of the enzyme expressed by the *Pseudomonas saccharophila* maltotetraohydrolase gene (*mta*) in *Escherichia coli*
J. Zhou, T. Baba, T. Takano, S. Kobayashi, and Y. Arai (Tsukuba City, Japan) 255

Notes

Glucuronoxylomannan of *Cryptococcus neoformans* serotype D: structural analysis by gas–liquid chromatography–mass spectrometry and by ^{13}C-nuclear magnetic resonance spectroscopy
R. Cherniak, L. C. Morris, and S. H. Turner (Atlanta, GA, U.S.A.) 263

Crystal and molecular structure of 5-azido-3-*O*-benzoyl-6-*O*-*tert*-butyldiphenylsilyl-5-deoxy-1,2-*O*-isopropylidene-β-L-talofuranose
C.-K. Lee, H. Jiang and L. L. Koh (Kent Ridge, Singapore) 271

Alternative synthesis and enzyme-inhibitory activity of methyl 1′-epiacarviosin and its 6-hydroxy analog
S. Ogawa, C. Uchida, and Y. Shibata (Yokohama, Japan) 279

Multiple tritylation: a convenient route to polysubstituted derivatives of cyclomaltohexaose
C.-C. Ling, A. W. Coleman, and M. Miocque (Châtenay-Malabry, France) 287

Preparation and characterisation of N_ε-(1-deoxy-D-fructos-1-yl)hippuryl-lysine
P. R. Smith and P. J. Thornalley (Colchester, Gt. Britain) 293

Total synthesis of (+)-validamycin H
Y. Miyamoto and S. Ogawa (Yokohama, Japan) 299

2-Azidoethyl glycosides: glycosides potentially useful for the preparation of neoglycoconjugates
A. Ya. Chernyak, G. V. M. Sharma, L. O. Kononov, P. R. Krishna, A. B. Levinsky, N. K. Kochetkov (Moscow, U.S.S.R.), and A. V. R. Rao (Hyderabad, India) 303

Synthesis and reactions of 2-methyl-5-(D-*arabino*-tetrahydroxybutyl)-3-pyrrolecarbohydrazide
M. El Sadek, S. A. Abdel-Baky, and N. N. El Soccary (Alexandria, Egypt) 311

Isolation and structure of a 4-*O*-methyl-glucuronoarabinogalactan from *Boswellia serrata*
A. K. Sen, Sr., A. K. Das, N. Banerji (Calcutta, India), and M. R. Vignon (Grenoble, France) 321

Hyaluronic acid and a (→4)-β-D-xylan, extracellular polysaccharides of *Pasteurella multocida* (Carter type A) strain 880
H. Rosner (Jena, Germany), H.-D. Grimmecke (Leipzig, Germany), Yu. A. Knirel, and A. S. Shashkov (Moscow, U.S.S.R.) 329

Author index c1
Subject c3
Contents (Volume 223) c7